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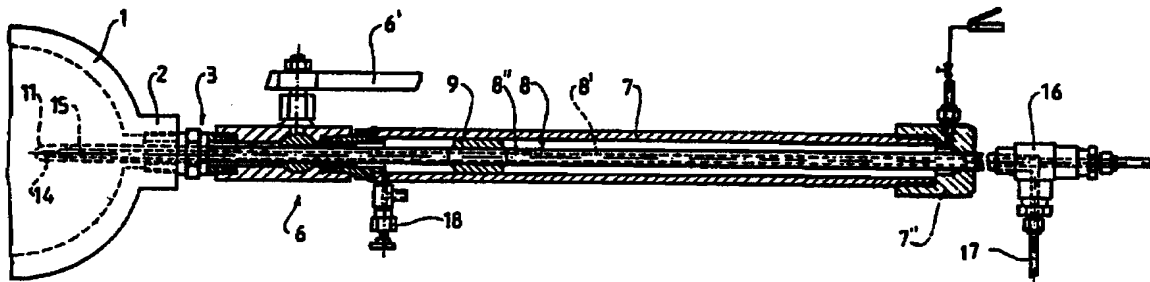DE 003146928 A1   US 4294124 A   US 3803921 A
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(54) **Isokinetic sampling apparatus**

(57)   The invention relates to an apparatus enabling isokinetic sampling of fluid flowing under high pressure in a tank (1), a separator, a heat exchanger or other container/pipe assigned at least one sampling point (2). In order to allow rational sampling, overcoming the problems due to said high pressure, the isokinetic sampling apparatus comprises a pressure fluid-operated cylinder (79) connected or connectable to, respectively, to a shut off valve (6, 6') which in its turn is connectable to said sampling point (2). When the shut off valve (6, 6') occupies the open position, it allows the passage of the piston rod (8) of the cylinder (7 - 9). The piston rod (8) is tubular and may consist of two concentrical pipes (8', 8"). The free end of the inner pipe (8') is formed for easily releasable (exchangable) mounting of a probe (11) equipped with at least one orifice plate (14), in that the stroke of the piston (9) which preferably is variable, is such that the probe (11) with its orifice plate (14) may be pushed into said tank (1), etc., laterally of the fluid flow and take out fluid samples across at least most of the cross-sectional area of the fluid flow.

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